



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017



Job No.: CTCE/BBMP/YS/W.No.12/CSR-1142e/CEMENT/2019-20

Date: 28.12.2019

TEST REPORT ON CEMENT

* Customer	: Asst. Executive Engineer, Project Division, Dasarahalli, BBMP, Bangalore.
* Agency	: Sri. Yogesh (Nandi Constructions), No.3868, 3 rd Cross, Shankar Nagar, Mandya.
* Name of Work	: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package - 1), BBMP, Bangalore.
* Reference	: BBMP/EE/PD/W.O/000012/2019-20 Dated : 26.12.2019
* Sample ID	: Cement
Sample Received on	: 26.12.2019
Period of Testing	: 26.12.2019 to 28.12.2019
Report Issue Date	: 28.12.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	395 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

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Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore



M/s. Civil-Tech Consultants & Engineers

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28.12.2019

Job No.: CTCE/BBMP/YS/W.No.12/CSR-1142c/SAND-Gradation/2019-20

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Project Division, Dasarahalli, BBMP, Bangalore.
* Agency	: Sri. Yogesh (Nandi Constructions), No.3868, 3rd Cross, Shankar Nagar, Mandya.
* Name of Work	: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package - I), BBMP, Bangalore.
* Reference	: BBMP/EE/PD/W.O/000012/2019-20 Dated : 26.12.2019
* Sample ID	: Fine Aggregates (Manufactured Sand)
Test Method As Per	: IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	: 26.12.2019
Date of Testing	: 28.12.2019
Report Issue Date	: 28.12.2019

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.90	90-100	90-100	90-100	95-100
2.36	78.10	60-95	75-100	85-100	95-100
1.18	62.90	30-70	55-90	75-100	90-100
600 Micron	40.60	15-34	35-59	60-79	80-100
300 Micron	11.00	5-20	8-30	12-40	15-50
150 Micron	5.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Job No.: CTCE/BBMP/YS/W.No.12/Steel/2019-20

28.12.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Project Division, Dasarahalli, BBMP, Bangalore.
* Agency	: Sri. Yogesh (Nandi Constructions), No.3868, 3rd Cross, Shankar Nagar, Mandya.
* Name of work	: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package - 1), BBMP, Bangalore.
* Reference	: BBMP/EE/PD/W.O/000012/2019-20 Dated : 26.12.2019
* Samples ID	: 10 mm Bar
Test Method as per	: IS - 1786 : 2008 (RA-2016)
Date of Testing	: 28.12.2019
Report Issue Date	: 28.12.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	513	554	13.15	O.K	O.K

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Job No.: CTCE/BBMP/YS/W.No.12/CSR-1142c/Cube/2019-20

03.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Project Division, Dasarahalli, BBMP, Bangalore.
* Agency	: Sri. Yogesh (Nandi Constructions), No.3868, 3rd Cross, Shankar Nagar, Mandya.
* Name of the work	: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package - 1), BBMP, Bangalore.
* Reference	: BBMP/EE/PD/W.O/000012/2019-20 Dated : 26.12.2019
* Sample ID	: RCC Drain Bottom Slab Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 03.02.2020
Report Issue Date	: 03.02.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	06.01.2020	03.02.2020	8.206	496.5	22.07
2	06.01.2020	03.02.2020	8.247	513.7	22.83
3	06.01.2020	03.02.2020	8.331	529.1	23.52

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Job No.: CTCE/BBMP/YS/W.No.12/CSR-1142c/Cube/2019-20

05.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Customer	: Asst. Executive Engineer, Project Division, Dasarahalli, BBMP, Bangalore.
Agency	: Sri. Yogesh (Nandi Constructions), No.3868, 3rd Cross, Shankar Nagar, Mandya.
Name of the work	: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package - 1), BBMP, Bangalore.
Reference	: BBMP/EE/PD/W.O/000012/2019-20 Dated : 26.12.2019
Sample ID	: RCC Drain Side Wall Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 05.02.2020
Report Issue Date	: 05.02.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	08.01.2020	05.02.2020	8.328	523.8	23.28
2	08.01.2020	05.02.2020	8.278	516.4	22.95
3	08.01.2020	05.02.2020	8.187	499.5	22.20

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Job No.: CTCE/BBMP/YS/W.No.12/CSR-1142e/Cube/2019-20

07.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Project Division, Dasarahalli, BBMP, Bangalore.
* Agency	: Sri. Yogesh (Nandi Constructions), No.3868, 3rd Cross, Shankar Nagar, Mandya.
* Name of the work	: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package - 1), BBMP, Bangalore.
* Reference	: BBMP/EE/PD/W.O/000012/2019-20 Dated : 26.12.2019
* Sample ID	: RCC Drain Side Wall Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 07.02.2020
Report Issue Date	: 07.02.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.01.2020	07.02.2020	8.198	515.8	22.92
2	10.01.2020	07.02.2020	8.246	529.4	23.53
3	10.01.2020	07.02.2020	8.334	501.9	22.31

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07.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	: Sri. Yogesh (Nandi Constructions), No.3868, 3rd Cross, Shankar Nagar, Mandya.
* Name of the work	: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package - 1), BBMP, Bangalore.
* Reference	: BBMP/EE/PD/W.O/000012/2019-20 Dated : 26.12.2019
* Sample ID	: RCC Drain Side Wall Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 07.02.2020
Report Issue Date	: 07.02.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.01.2020	07.02.2020	8.306	530.8	23.59
2	10.01.2020	07.02.2020	8.189	493.5	21.93
3	10.01.2020	07.02.2020	8.247	517.0	22.98

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Job No: CTCR/BBMP/YS/W.No.12/CSR-1142e/Cube/2019-20

10.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES.

* Customer	: Asst. Executive Engineer, Project Division, Dasarahalli, BBMP, Bangalore.
* Agency	: Sri. Yogesh (Nandi Constructions), No.386B, 3rd Cross, Shankar Nagar, Mandya.
* Name of the work	: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package - 1), BBMP, Bangalore.
* Reference	: BBMP/EP/PD/W.O/000012/2019-20 Dated : 26.12.2019
* Sample ID	: RCC Drain Side Wall Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 10.02.2020
Report Issue Date	: 10.02.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.01.2020	10.02.2020	8.198	496.7	22.08
2	13.01.2020	10.02.2020	8.247	515.3	22.90
3	13.01.2020	10.02.2020	8.345	525.8	23.37

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Job No.: CTCE/BBMP/YS/W.No.12/CSR-1142c/Cube/2019-20

13.02.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	: Sri. Yogesh (Nandi Constructions), No.3868, 3rd Cross, Shankar Nagar, Mandya.
* Name of the work	: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package - 1), BBMP, Bangalore.
* Reference	: BBMP/EE/PD/W.O/000012/2019-20 Dated : 26.12.2019
* Sample ID	: RCC Drain Side Wall Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 13.02.2020
Report Issue Date	: 13.02.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.01.2020	13.02.2020	8.190	497.8	22.12
2	16.01.2020	13.02.2020	8.364	536.7	23.85
3	16.01.2020	13.02.2020	8.250	520.8	23.15

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Job No.: CTCE/BBMP/YS/W.No.12/CSR-1142e/Cube/2019-20

09.03.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Project Division, Dasarahalli, BBMP, Bangalore.
* Agency	: Sri. Yogesh (Nandi Constructions), No.3868, 3rd Cross, Shankar Nagar, Mandya.
* Name of the work	: Improvements of roads and drains at Shettyhalli and surrounding area in Ward No.12, Project Division, Dasarahalli (Package - 1), BBMP, Bangalore.
* Reference	: BBMP/EE/PD/W.O/000012/2019-20 Dated : 26.12.2019
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₃₀
Compressive Strength as on	: 28 th day
Sample Received on	: 09.03.2020
Report Issue Date	: 09.03.2020

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	10.02.2020	09.03.2020	8.226	719.6	31.98
2	10.02.2020	09.03.2020	8.339	725.4	32.24
3	10.02.2020	09.03.2020	8.415	730.3	32.46

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